KIDNEY INTERNATIONAL

Volume 44, Number 1, July 1993

Official Journal of the International Society of Nephrology

Le Journal Official de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

Schistosomal glomerulopathies. *Rashad S. Barsoum* 1

LABORATORY INVESTIGATION

Primary culture of rabbit proximal tubules as a cellular model to study nephrotoxicity of xenobiotics. *Anne Blais, Juliette Morvan-Baleynaud, Gérard Friedlander, and Christian Le Grimellec* 13

Therapeutic efficacy of non-peptide ADH antagonist OPC-31260 in SIADH rats. *Genro Fujisawa, San-e Ishikawa, Yasushi Tsuboi, Koji Okada, and Toshikawu Saito* 19

Effect of ACE inhibitors on atrial natriuretic factor in the brains of rats with reduced renal mass. *Helmut Geiger, Udo Bahner, Iris Kraus, Marion Hoffmann, Miklos Palkovits, August Heidland, and Friedrich C. Luft* 24

Clonidine, but not bradykinin or ANP, inhibits Na^+ and water transport in Dahl SS rat CCD. *C. Terrance Hawk and James A. Schafer* 30

Novel ligands BQ123 and BQ3020 characterize endothelin receptor subtypes ET_A and ET_B in human kidney. *Fiona E. Karet, Rhoda E. Kuc, and Anthony P. Davenport* 36

Interferon-γ regulation of human renal cortical epithelial cell-derived monocyte chemotactic peptide-1. *Robert L. Schmouder, Robert M. Strieter, and Steven L. Kunkel* 43

INF-γ mediated stimulation of complement C4 biosynthesis in human proximal tubular epithelial cells. *Marc A.J. Seelen, Ricardo A. Brooimans, Fokko J. van der Woude, Leendert A. van Es, and Mohamed R. Daha* 50

Activation of protein kinase C reduces thromboxane receptors in glomeruli and mesangial cells. *Rebecca K. Studer, Patricia A. Craven, and Frederick R. DeRubertis* 58

Shared idiotypes in mesangial deposits in IgA nephropathy are not disease-specific. *A. Warmould L. van den Wall Bake, Jan Anthonie Bruijn, Mary Ann Accavitti, Peggy A. Crowley-Nowick, Ralph E. Schrohenloher, Bruce A. Julian, Susan Jackson, Hiromi Kubagawa, Max D. Cooper, Mohamed R. Daha, and Jiri Mestecky* 65

CLINICAL INVESTIGATION

Fish oil in lupus nephritis: Clinical findings and methodological implications. *William F. Clark, Anwar Parbtani, C. David Naylor, Carey Levinton, Norman Muirhead, Evelyn Spanner, Murray W. Huff, Diana J. Philbrick, and Bruce J. Holub* 75

Intra-peritoneal free elastase in CAPD peritonitis. *Kieron L. Donovan, Steve Pacholok, John L. Humes, Gerald A. Coles, and John D. Williams* 87

Role of elevated lecithin: Cholesterol acyltransferase and cholesteryl ester transfer protein activities in abnormal lipoproteins from proteinuric patients. *Robin P.F. Dullaart, Ron T. Gansevoort, Bert D. Dikkeschei, Dick de Zeeuw, Paul E. de Jong, and Arie van Tol* 91

Epiphyseal impaction as a cause of severe osteoarticular pain of lower limbs after renal transplantation. *Eric Goffin, Bruno Vande Berg, Yves Pirson, Jacques Malghem, Baudouin Maldague, and Charles van Ypersele de Strihou* 98

Contents continued on next page

KIDNEY INTERNATIONAL

Volume 44, Number 1, July 1993

Official Journal of the International Society of Nephrology

Le Journal Official de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

Schistosomal glomerulopathies. *Rashad S. Barsoum* 1

LABORATORY INVESTIGATION

Primary culture of rabbit proximal tubules as a cellular model to study nephrotoxicity of xenobiotics. *Anne Blais, Juliette Morvan-Baleynaud, Gérard Friedlander, and Christian Le Grimellec* 13

Therapeutic efficacy of non-peptide ADH antagonist OPC-31260 in SIADH rats. *Genro Fujisawa, San-e Ishikawa, Yasushi Tsuboi, Koji Okada, and Toshikawu Saito* 19

Effect of ACE inhibitors on atrial natriuretic factor in the brains of rats with reduced renal mass. *Helmut Geiger, Udo Bahner, Iris Kraus, Marion Hoffmann, Miklos Palkovits, August Heidland, and Friedrich C. Luft* 24

Clonidine, but not bradykinin or ANP, inhibits Na^+ and water transport in Dahl SS rat CCD. *C. Terrance Hawk and James A. Schafer* 30

Novel ligands BQ123 and BQ3020 characterize endothelin receptor subtypes ET_A and ET_B in human kidney. *Fiona E. Karet, Rhoda E. Kuc, and Anthony P. Davenport* 36

Interferon-γ regulation of human renal cortical epithelial cell-derived monocyte chemotactic peptide-1. *Robert L. Schmouder, Robert M. Strieter, and Steven L. Kunkel* 43

INF-γ mediated stimulation of complement C4 biosynthesis in human proximal tubular epithelial cells. *Marc A.J. Seelen, Ricardo A. Brooimans, Fokko J. van der Woude, Leendert A. van Es, and Mohamed R. Daha* 50

Activation of protein kinase C reduces thromboxane receptors in glomeruli and mesangial cells. *Rebecca K. Studer, Patricia A. Craven, and Frederick R. DeRubertis* 58

Shared idiotypes in mesangial deposits in IgA nephropathy are not disease-specific. *A. Warmould L. van den Wall Bake, Jan Anthonie Bruijn, Mary Ann Accavitti, Peggy A. Crowley-Nowick, Ralph E. Schrohenloher, Bruce A. Julian, Susan Jackson, Hiromi Kubagawa, Max D. Cooper, Mohamed R. Daha, and Jiri Mestecky* 65

CLINICAL INVESTIGATION

Fish oil in lupus nephritis: Clinical findings and methodological implications. *William F. Clark, Anwar Parbtani, C. David Naylor, Carey Levinton, Norman Muirhead, Evelyn Spanner, Murray W. Huff, Diana J. Philbrick, and Bruce J. Holub* 75

Intra-peritoneal free elastase in CAPD peritonitis. *Kieron L. Donovan, Steve Pacholok, John L. Humes, Gerald A. Coles, and John D. Williams* 87

Role of elevated lecithin: Cholesterol acyltransferase and cholesteryl ester transfer protein activities in abnormal lipoproteins from proteinuric patients. *Robin P.F. Dullaart, Ron T. Gansevoort, Bert D. Dikkeschei, Dick de Zeeuw, Paul E. de Jong, and Arie van Tol* 91

Epiphyseal impaction as a cause of severe osteoarticular pain of lower limbs after renal transplantation. *Eric Goffin, Bruno Vande Berg, Yves Pirson, Jacques Malghem, Baudouin Maldague, and Charles van Ypersele de Strihou* 98

Contents continued on next page

Abnormal hemodynamics and elevated angiotensin II plasma levels in polydipsic patients on regular hemodialysis treatment. *Giorgio Graziani, Salvatore Badalamenti, Alberto del Bo, Monica Marabini, Gabriella Gazzano, Giovanna Como, Elena Viganò, Giancarlo Ambroso, and Alberto Morganti, with the technical assistance of Lucia Turolo* 107

Serum albumin is a strong predictor of death in chronic dialysis patients. *Kunitoshi Iseki, Nobuyuki Kawazoe, and Koshiro Fukiyama* 115

Calculation of titratable acidity from urinary stone risk factors. *Dirk J. Kok, John Poindexter, and Charles Y.C. Pak* 120

Sodium-lithium countertransport and triglycerides in diabetic nephropathy. *Ruggero Mangili, Gianpaolo Zerbini, Cristina Barlassina, Daniele Cusi, and Guido Pozza* 127

Lower affinity for substrate for extrarenal synthesis of calcitriol in chronic uremia. *Lavinia Negrea, Eduardo Slatopolsky, and Adriana Dusso* 134

Role of hyperglycemia and insulin resistance in determining sodium retention in non-insulin-dependent diabetes. *Romano Nosadini, Maria Sambataro, Karl Thomaseth, Giovanni Pacini, Maria Rita Cipollina, Enrico Brocco, Anna Solini, Andrea Carraro, Mario Velussi, Francesco Frigato, and Gaetano Crepaldi* 139

Stage- and segment-specific expression of cell-adhesion molecules N-CAM, A-CAM and L-CAM in the kidney. *Etienne J. Nouwen, Simonne Dauwe, Inge Van Der Biest, and Marc E. De Broe* 147

Renal osteodystrophy in diabetic patients. *York Pei, Gavril Hercz, Celia Greenwood, Gino Segre, Arif Manuel, Carl Saiphoo, Stanley Fenton, and Donald Sherrard* 159

Role of the renin-angiotensin system on the renal functional reserve in renal transplant recipients. *Eric Rondeau, Françoise Paillard, Marie-Noëlle Peraldi, Isabelle Violet, Sophie Tasse, Jean-Claude Dussaule, Raymond Ardaillou, and Jean-Daniel Sraer* 165

Parathyroid removal prevents the progression of chronic renal failure induced by high protein diet. *Takashi Shigematsu, Joseph Caverzasio, and Jean-Philippe Bonjour* 173

Effect of erythropoietin therapy in withdrawal on blood coagulation and fibrinolysis in hemodialysis patients. *Joanne E. Taylor, Jill J.F. Belch, Margaret McLaren, Iain S. Henderson, and William K. Stewart* 182

Outcome of HIV infected patients on continuous ambulatory peritoneal dialysis. *Josie A. Tebben, Michael O. Rigsby, Peter A. Selwyn, Nancy Brennan, Alan Kliger, and Fredric O. Finkelstein* .. 191

Efficacy and safety of growth hormone treatment in short children with renal allografts: Three year experience. *Burkhard Tönshoff, Dieter Haffner, Otto Mehls, Melanie Dietz, Hans Ruder, Werner F. Blum, Udo Heinrich, Brigitte Stöver, and Members of the German Study Group for Growth Hormone Treatment in Children with Renal Allografts* 199

Contributing factors to the inhibition of phagocytosis in hemodialyzed patients. *Raymond Vanholder, Wim Van Biesen, and Severin Ringoir* 208

RAPID COMMUNICATION

Methylprednisolone normalizes superoxide anion production by polymorphs from patients with ANCA-positive vasculitides. *Daniela Macconi, Adrian Fabio Zanoli, Silvia Orisio, Lorena Longaretti, Luca Magrini, Stefano Rota, Antonella Radice, Cristiana Pozzi, and Giuseppe Remuzzi* 215

NEPHROLOGY FORUM

Infectious disease complications of renal transplantation. *Robert H. Rubin* 221

ABSTRACTS

Gesellschaft für Nephrologie 237

Swiss Society of Nephrology 258

INTERNATIONAL SOCIETY OF NEPHROLOGY

Meetings 268

Awards and Grants 271

Instructions for Authors on page xi

KIDNEY INTERNATIONAL

Volume 44, Supplement 42

Proceedings of the Priscilla Kincaid-Smith Festschrift

Melbourne, Australia

November 5–8, 1991

Table of contents

Introduction. *Rowan G. Walker and Gavin J. Becker* S-1

GLOMERULONEPHRITIS

The contributions of Priscilla Kincaid-Smith to the study of glomerulonephritis: A personal view. *John Stewart Cameron* S-2

Microscopic urinalysis in glomerulonephritis. *Kenneth J. Fairley and Douglas F. Birch* S-9

Deficiency and depletion of complement in the pathogenesis of nephritis vasculitis. *Peter W. Mathieson and D. Keith Peters* S-13

Pathogenesis of glomerulonephritis. *William G. Couser* S-19

CURRENT CONCEPTS IN RENAL PATHOLOGY

Role of leukocyte-endothelial cell adhesion molecules in renal inflammation: *In vitro* and *in vivo* studies. *David M. Briscoe and Ramzi S. Cotran* S-27

The glomerular peripolar cell. *Daine Alcorn and Graeme B. Ryan* S-35

Localization and properties of angiotensin II receptors in rat kidney. *Jialong Zhou, Daine Alcorn, Peter J. Harris, and Frederick A.O. Mendelsohn* S-40

Renal Gene Expression. *John P. Coghlan, Ian A. Darby, and Jennifer D. Penschow* S-47

HYPERTENSION AND PREGNANCY

Contributions of Priscilla Kincaid-Smith to hypertension. *Austin E. Doyle* S-50

Hypertension and the kidney. *Judith A. Whitworth and Mark E. Brown* S-52

Intrarenal renin-angiotensin system in renal physiology and pathophysiology. *Colin I. Johnston, Bruno Fabris, and Karin Jandeleit* S-59

Aspects of renal disease and pregnancy. *David K. Packham* S-64

Drug treatment of hypertension. *John L. Reid* S-68

TUBULO-INTERSTITIAL DISEASE

Chronic tubulo-interstitial nephritis: The contributions of Priscilla Kincaid-Smith. *Gavin J. Becker and Rowan G. Walker* S-71

Clinical management of autosomal dominant polycystic kidney disease. *William M. Bennett and Lawrence W. Elzinga* S-74

Vesico-ureteric reflux and reflux nephropathy. *Ross R. Bailey* S-80

Analgesic nephropathy in the 1990s—An Australian perspective. *Ranjit S. Nanra* S-86

Lithium nephrotoxicity. *Rowan G. Walker* S-93

Contents continued on next page

KIDNEY INTERNATIONAL

Volume 44, Number 2, August 1993

Official Journal of the International Society of Nephrology

Le Journal Official de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

Laparoscopic renal surgery. *Kurt Kerbl and Ralph V. Clayman* 273

LABORATORY INVESTIGATION

Integrin receptors and function on cultured glomerular endothelial cells. *Stephen Adler and Ben Eng* 278

Angiotensin II and catecholamines interaction in short-term low protein feeding. *Julio E. Benabe, Emma Fernández-Repollet, Edilia Tapia, Chuying Luo, and Manual Martinez-Maldonado* 285

Proliferative autoimmune glomerulonephritis in rats: A model for autoimmune glomerulonephritis in humans. *W. Kline Bolton, Walter J. May, and Benjamin C. Sturgill* 294

Associations of HLA-DR and HLA-DQ types with anti-GBM nephritis by sequence-specific oligonucleotide probe hybridization. *Bing Huey, Kelly McCormick, Jan Capper, Christina Ratliff, Beth W. Colombe, Marvin R. Garovoy, and Curtis B. Wilson* 307

Increased expression of TGF-β1 mRNA in the obstructed kidney of rats with unilateral ureteral ligation. *Hiroyuki Kaneto, Jerry Morrissey, and Saulo Klahr* 313

Calbindin-D_{28k} gene expression in the developing mouse kidney. *Lanting Liu, S. Terence Dunn, Sylvia Christakos, Olivia Hanson-Painton, and James E. Bourdeau* 322

Cellular expression of angiotensin type-1 receptor mRNA in the kidney. *Björn Meister, Andrea Lippoldt, Bernd Bunnemann, Tadashi Inagami, Detlev Ganten, and Kjell Fuxe* 331

Simulation of lithium transport along the thin segments of Henle's loop. *Junichi Taniguchi, David G. Shirley, Stephen J. Walter, and Masashi Imai* 337

Effect of elevated extracellular glucose concentrations on transmembrane calcium ion fluxes in cultured rat VSMC. *Bryan Williams and Robert W. Schrier* 344

CsA, FK506, corticosteroids and rapamycin inhibit TNFα production by cultured PTEC. *Benito A. Yard, Roy R. Pancham, Marion E. Paape, M.R. Daha, Leendert A. van Es, and Fokko J. van der Woude* 352

CLINICAL INVESTIGATION

T cell activation defect in hemodialysis patients: Evidence for a role of the B7/CD28 pathway. *Matthias Girndt, Hans Köhler, Erika Schiedhelm-Weick, Karl-Hermann Meyer zum Büschenfelde, and Bernhard Fleischer* 359

Relationship of protein intake to urinary oxalate and glycolate excretion. *Ross P. Holmes, Harold O. Goodman, Lois J. Hart, and Dean G. Assimos* 366

Continuous ambulatory peritoneal dialysis and survival of HIV infected patients with end-stage renal disease. *Paul L. Kimmel, Walter O. Umana, Samual J. Simmens, Joan Watson, and Juan P. Bosch* 373

Parathyroid hormone dependent T cell proliferation in uremic rats. *Ewa Lewin, Jorgen Ladefoged, Lisbet Brandi, and Klaus Olgaard* 379

DNA repair and recovery of RNA synthesis in uremic patients. *Tsipora Malachi, Dina Zevin, Uzi Gafter, Avry Chagnac, Hanoch Slor, and Joseph Levi* 385

Regulation of renin-angiotensin system in unilateral ureteral obstruction. *J. Luis Pimentel Jr., Manuel Martinez-Maldonado, Josiah N. Wilcox, Susheng Wang, and Chuying Luo* 390

Contents continued on next page

RENAL TRANSPLANTATION

Renal transplantation: Contributions of Priscilla Kincaid-Smith. *Timothy H. Mathew* S-99

A specific glomerular lesion of the graft: Allograft glomerulopathy. *Renée Habib, Aleksandra Zurowska, Nicole Hinglais, Marie-Claire Gubler, Corinne Antignac, Patrick Niaudet, Michel Broyer, and Marie-France Gagnadoux, with the technical assistance of M. Lacoste, A. Beziau, and M. Sich* S-104

Future directions in transplantation: Xenotransplantation. *Christine A. Somerville and Anthony J.F. d'Apice* S-112

Instructions for Authors on page iv

Marked reduction of Tamm-Horsfall protein synthesis in hyperprostaglandin E-syndrome. *Jens Schröter, Gundi Timmermans, Hansjörg W. Seyberth, Jürgen Greven, and Sebastian Bachmann* 401

International standardization of criteria for the histologic diagnosis of renal allograft rejection: The Banff working classification of kidney transplant pathology. *Kim Solez, Roy A. Axelsen, Hallgrimur Benediktsson, James F. Burdick, Arthur H. Cohen, Robert B. Colvin, Byron P. Croker, Dominique Droz, Michael S. Dunnill, Philip F. Halloran, Pekka Häyry, J. Charles Jennette, Paul A. Keown, Niels Marcussen, Michael J. Mihatsch, Kunio Morozumi, Bryan D. Myers, Cynthia C. Nast, Steen Olsen, Lorraine C. Racusen, Eleanor L. Ramos, Seymour Rosen, David H. Sachs, Daniel R. Salomon, Fred Sanfilippo, Regina Verani, Eeva von Willebrand, and Yutaka Yamaguchi* 411

Tamm Horsfall protein binds to a single class of carbohydrate specific receptors on human neutrophils. *David B.L. Thomas, Malcolm Davies, John R. Peters, and John D. Williams* 423

Nitric oxide mediates renal vasodilation during erythropoietin-induced polycythemia. *Christopher S. Wilcox, Xiaolin Deng, Avon H. Doll, Harold Snellen, and William J. Welch* 430

TECHNICAL NOTE

Failure to predict cyclosporine area under the curve using a limited sampling strategy. *Flavio Gaspari, Piero Ruggenenti, Leonarda Torre, Cesare Bertocchi, Giuseppe Remuzzi, and Norberto Perico* 436

RAPID COMMUNICATIONS

A specific endothelin subtype A receptor antagonist protects against injury in renal disease progression. *Ariela Benigni, Carla Zoja, Daniela Corna, Silvia Orisio, Lorena Longaretti, Tullio Bertani, and Guiseppe Remuzzi* 440

Enhanced nitric oxide syntheses in uremic implications for platelet dysfunction and dialysis hypotension. *Marina Noris, Ariela Benigni, Paola Boccardo, Sistiana Aiello, Flavio Gaspari, Marta Todeschini, Marina Figliuzzi, and Giuseppe Remuzzi* 445

NEPHROLOGY FORUM

Renal actions of endothelin. *Edward P. Nord* 451

ABSTRACTS

Société de Néphrologie, Nantes, Frances, October 15–16, 1992 464

INTERNATIONAL SOCIETY OF NEPHROLOGY

Meetings 473

Awards and Grants 476

Instructions for Authors on page xiii

KIDNEY INTERNATIONAL

Volume 44, Number 3, September 1993

Official Journal of the International Society of Nephrology

Le Journal Official de la Société Internationale de Néphrologie

Table of contents

INVITED CONTRIBUTION

International dialysis aid in earthquakes and other disasters. *Kim Solez, David Bihari, Allan J. Collins, Garabed Eknoyan, Haskel Eliahou, V.D. Fedorov, Carl Kjellstrand, Norbert Lameire, Joseph Letteri, Allen R. Nissenson, Eric K. Noji, J.P. Wauters, and Yasuhiro Yamamoto* 479

EDITORIAL REVIEW

Clinical implications of hemodialysis membrane biocompatibility. *Raymond M. Hakim* 484

LABORATORY INVESTIGATION

Distribution of dopamine- and cAMP-dependent phosphoprotein (DARPP-32) in the developing and mature kidney. *Jessica Fryckstedt, Anita Aperia, Gretchen Snyder, and Björn Meister* 495

Simvastatin inhibits PDGF-induced DNA synthesis in human glomerular mesangial cells. *Guiseppe Grandaliano, Purba Biswas, Goutam Ghosh Choudhury, and Hanna E. Abboud* 503

Ion content and cell volume in isolated collecting duct cells: Effect of hypotonicity. *Julia M. Grunewald, R. Willi Grunewald, and Rolf K.H. Kinne* 509

Alteration of mesangial response to ANP and angiotensin II by glucose. *Masakazu Haneda, Ryuichi Kikkawa, Daisuke Koya, Takashi Uzu, Shiro Maeda, Masaki Togawa, and Yukio Shigeta* 518

Histochemical markers reveal an unexpected heterogeneous composition of the renal embryonic collecting duct epithelium. *Sabine Kloth, Joachim Aigner, Ernst Brandt, Roland Moll, and Will W. Minuth* 527

Aldosterone modulates PNA binding cell isoforms within renal collecting duct epithelium. *Will W. Minuth, Wolfgang Fietzek, Sabine Kloth, Joachim Aigner, Peter Herter, Wolfgang Rockl, Marion Kubitza, Günther Stöckl, and Rolf Dermietzel* 537

Bradykinin causes selective efferent arteriolar dilation during angiotensin I converting enzyme inhibition. *Valentina Kon, Agnes Fogo, and Iekuni Ichikawa, with the technical assistance of Samuel E. Hellings and Teresa Bills* 545

Effect of 22-oxa-calcitriol on calcium metabolism in rats with severe secondary hyperparathyroidism. *Marcos Kubrusly, Eve-Reine Gagné, Pablo Ureña, Catherine Hanrotel, Sophie Chabanis, Bernard Lacour, and Tilman B. Drüeke, with the technical assistance of Guillaume Jehenne, Patricia Duchambon, Hélène Banide, and Nathalie Pacher* 551

Glomerular fibrinolytic activity in anti-GBM glomerulonephritis in rabbits. *Jim Malliaros, Stephen B. Holdsworth, Johann Wojta, Jonathan Erlich, and Peter G. Tipping* 557

A protein with anion exchange properties found in the kidney proximal tubule. *Manoocher Soleimani, Gwen L. Bizal, and Caryn C. Anderson* 565

CLINICAL INVESTIGATION

Increased Na/H antiport activity and abundance in uremic red blood cells. *Dalila B. Corry, Michael L. Tuck, Susanne Nicholas, and Edward J. Weinman* 574

Dissociation between the course of the hemodynamic and antiproteinuric effects of angiotensin I converting enzyme inhibition. *Ron T. Gansevoort, Dick de Zeeuw, and Paul E. de Jong* 579

Interleukin-6 and TNF production in human renal cell carcinoma. *Jean Gogusev, Michel Augusti, Yves Chrétien, and Dominique Droz* 585

Contents continued on next page

Collagen studies in newborn rat kidneys with incomplete ureteric obstruction. *Anna Haralambous-Gasser, Danny Chan, Rowan G. Walker, Harley R. Powell, Gavin J. Becker, and Colin L. Jones* 593

Effects of cooler temperature dialysate on hemodynamic stability in "problem" dialysis patients. *Charles M.T. Jost, Rajiv Agarwal, T. Khair-El-Din, Paul A. Grayburn, Ronald G. Victor, and William L. Henrich* 606

Association of cyclosporin A with acquired cystic kidney disease of the native kidneys in renal transplant recipients. *Yeong-Hau H. Lien, K. Rebecca Hunt, Mark S. Siskind, and Charles Zukoski* 613

Screening diabetic transplant candidates for coronary artery disease: Identification of a low risk subgroup. *Connie L. Manske, William Thomas, Yang Wang, and Robert F. Wilson* 617

Urea kinetics during hemodialysis measured by microdialysis—A novel technique. *George S. Metry, Per-Ola Attman, Peter Lönnroth, Soheir N. Beshara, and Mattias Aurell* 622

Derangements in acetylcholine metabolism in brain synaptosomes in chronic renal failure. *Zhenmin Ni, Miroslaw Smogorzewski, and Shaul G. Massry* 630

The increased risk of coronary heart disease associated with nephrotic syndrome. *Juan D. Ordoñez, Robert A. Hiatt, Ellen J. Killebrew, and Bruce H. Fireman* 638

NEPHROLOGY FORUM

Renal complications of nonsteroidal anti-inflammatory drugs. *Detlef Schlondorff* 643

INTERNATIONAL SOCIETY OF NEPHROLOGY

Meetings 654

Awards and Grants 657

Instructions for Authors on page xiv

KIDNEY INTERNATIONAL

Volume 44, Number 4, October 1993

Official Journal of the International Society of Nephrology

Le Journal Officiel de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

Mechanisms of renal hemodynamic regulation in response to protein feeding. *Lori L. Woods* 659

LABORATORY INVESTIGATION

Renal synthesis of arginine in chronic renal failure: *In vivo* and *in vitro* studies in rats with 5/6 nephrectomy. *Nadine Bouby, Christine Hassler, Philippe Parvy, and Lise Bankir* 676

Juxtamedullary afferent and efferent arterioles constrict to renal nerve stimulation. *Jing Chen and John T. Fleming* 684

Self-regulation of autoreactive kidney-infiltrating T cells in MRL-*lpr* nephritis. *Cristina Díaz-Gallo and Vicki Rubin Kelley* 692

Water transport model during CAPD: Determination of parameters. *Takashi Horiuchi, Yoko Tada, Yusuke Kuwahara, Yuji Ohta, and Takeyoshi Dohi* 700

Intermittent and continuous exposure to $1,25(OH)_2D_3$ have different effects on growth plate chondrocytes *in vitro*. *Günter Klaus, Birgit König, Ulrike Hügel, Eberhard Ritz, and Otto Mehls* 708

Platelet involvement in experimental immune complex-mediated glomerulonephritis in the nonhuman primate. *John D. Mahan, Lee A. Hebert, C. McAllister, Daniel J. Birmingham, Xiao-Ping Shen, Fernando G. Cosio, and John Brandt* 716

Catechol-*O*-methyltransferase mRNA in the kidney and its appearance during ontogeny. *Björn Meister, Andrew J. Bean, and Anita Aperia* 726

Effects of 5′-N-ethylcarboxamideadenosine (NECA) on erythropoietin production. *Jun Nakashima, Takashi Ohigashi, Jesse W. Brookins, Barbara S. Beckman, Krishna C. Agrawal, and James W. Fisher* 734

Luminal and intracellular cGMP inhibit the mTAL reabsorptive capacity through different pathways. *Françoise Neant and Claire Bailly* 741

Defective glomerular [^{3}H]lysoPAF metabolism in the autologous phase of rabbit nephrotoxic nephritis. *Marina Noris, Daniela Macconi, Vittorio Nanni, Mario Salmona, Marta Todeschini, and Giuseppe Remuzzi* 747

Enhancement of vascular action of arginine vasopressin by diminished extracellular sodium concentration. *Koji Okada, San-e Ishikawa, Carlos Caramelo, Phoebe Tsai, and Robert W. Schrier* 755

Renin stimulating properties of parathyroid hormone-related peptide in the isolated perfused rat kidney. *Christian Saussine, Thierry Massfelder, Frederique Parnin, Clement Judes, Umberto Simeoni, and Jean-Jacques Helwig* 764

Interstitial fibrosis in obstructive nephropathy. *Atul K. Sharma, S. Michael Mauer, Youngki Kim, and Alfred F. Michael* 774

Studies of alteration of hepatic cholesterol metabolism in puromycin-induced nephrotic syndrome in rats. *Mohamed A.E.H. Thabet, Anna Challa, James C.M. Chan, William M. Pandak, Douglas M. Heuman, and Z. Reno Vlahčevič* 789

TNFα induces expression of the chemoattractant cytokine RANTES in cultured mouse mesangial cells. *Gunter Wolf, Stefan Aberle, Freidrich Thaiss, Peter J. Nelson, Alan M. Krensky, Eric G. Neilson, and Rolf A.K. Stahl* 795

Expression of vascular cell adhesion molecule-1 in kidney allograft rejection. *Charles E. Alpers, Kelly L. Hudkins, Connie L. Davis, Christopher L. Marsh, Wayne Riches, John M. McCarty, Christopher D. Benjamin, Timothy M. Carlos, John M. Harlan, and Roy Lobb* 805

Contents continued on next page

Immunohistochemical distribution and quantification of crystal matrix protein. *Alan M.F. Stapleton, Anthony E. Seymour, James S. Brennan, Ian R. Doyle, Villis R. Marshall, and Rosemary L. Ryall* 817

In situ expression of cytokines in IgA nephritis. *Kazuo Yoshioka, Tsukasa Takemura, Katsumi Murakami, Mitsuru Okada, Kazuro Yagi, Hirofumi Miyazato, Kouji Matsushima, and Sunao Maki* 825

CLINICAL INVESTIGATION

Diagnostic value of bone marrow biopsy in patients with renal disease secondary to familial Mediterranean fever. *Cem Sungur, Arzu Sungur, Sevket Ruacan, Nurol Arik, Unal Yasavul, Cetin Turgan, and Sali Caglar* 834

Fibrillary glomerulonephritis without immunoglobulin deposits in the kidney. *Jacob Churg and V. Surya Venkataseshan* 837

n-3 fatty acids reduce proteinuria in patients with chronic glomerular disease. *Raffaele de Caterina, Raffaele Caprioli, Daniela Giannessi, Rosa Sicari, Claudio Galli, Guido Lazzerini, Walter Bernini, Lisa Carr, and Paolo Rindi*..... 843

Non-invasive monitoring of blood volume during hemodialysis: Its relation with post-dialytic dry weight. *Jean-Paul de Vries, Peter M. Kouw, Nardo J.M. van der Meer, Cees G. Olthof, Liem P. Oe, Ab J.M. Donker, and Peter M.J.M. de Vries* 851

Long-term glycemic control and the rate of progression of early diabetic kidney disease. *Richard E. Gilbert, Con Tsalamandris, Leon A. Bach, Sianna Panagiotopoulos, Richard C. O'Brien, Terri J. Allen, Ian Goodall, Val Young, Ego Seeman, Robin M.L. Murray, Mark E. Cooper, and George Jerums* 855

Aplastic osteodystrophy without aluminum: The role of "suppressed" parathyroid function. *Gavril Hercz, Y. Pei, C. Greenwood, A. Manuel, C. Saiphoo, W.G. Goodman, G.V. Segre, S. Fenton, and D.J. Sherrard* 860

Post-transplantation nephrosis in congenital nephrotic syndrome of the Finnish type. *Jarmo Laine, Hannu Jalanko, Harry Holthöfer, Leena Krogerus, Jubani Rapola, Eeva von Willebrand, Irmeli Lautenschlager, Kaija Salmela, and Christer Holmberg* 867

TECHNICAL NOTE

A simple method to determine millimolar concentrations of sodium in nanoliter samples. *Jeffrey L. Garvin* 875

RAPID COMMUNICATION

Regression of left ventricular hypertrophy in hypertensive dialyzed uremic patients on long-term antihypertensive therapy. *Giuseppe Cannella, Ernesto Paoletti, Roberto Delfino, Giancarlo Peloso, Sandra Molinari, and Giovanni Battista Traverso* 881

NEPHROLOGY FORUM

Molecular biology of erythropoietin. *Peter J. Ratcliffe* 887

ABSTRACTS

7th Hellenic Congress of Nephrology, Alexandroupolis, Greece, May 19–22, 1992..... 905

INTERNATIONAL SOCIETY OF NEPHROLOGY

Meetings 920

Awards and Grants 922

Errata 924

Instructions for Authors on page x

KIDNEY INTERNATIONAL

Volume 44, Supplement 43, October 1993

"Concepts and Controversies

in Pediatric Renal Transplantation"

Vancouver, British Columbia, October 16–17, 1992

Table of contents

Introduction. *Amir Tejani, Steven Alexander, and William Harmon* S-1

Signaling features of T cells: Implications for the regulation of the anti-allograft response. *Manikkam Suthanthiran* S-3

Development of synergistic immunosuppressive drug regimens based upon cyclosporine. *Barry D. Kahan* S-12

Five-year patient and graft survival in North American children: A report of The North American Pediatric Renal Transplant Cooperative Study. *Donald M. Stablein and Amir Tejani* S-16

Five year survival of kidney transplantation in children: Data from the European (EDTA-ERA) Registry. *Michel Broyer, Jochen Ehrich, Elisabeth Jones, and Neville Selwood* S-22

Metabolic effects of steroid withdrawal in adult renal transplant recipients. *Donald E. Hricik and James A. Schulak* S-26

Prednisone withdrawal in HLA identical and one haplotype-matched live-related donor and cadaver renal transplant recipients. *Sundaram Hariharan, Timothy J. Schroeder, Patricia Weiskittel, J. Wesley Alexander, and M. Roy First* S-30

Steroid withdrawal, rejection and the mixed lymphocyte reaction in children after renal transplantation. *Elizabeth Ingulli, M.D. Vijay Sharma, Anup Singh, Manikkam Suthanthiran, and Amir Tejani* S-36

Renal transplantation in the first five years of life. *John S. Najarian, P. Stephen Almond, S. Michael Mauer, Blanche M. Chavers, Thomas E. Nevins, Clifford E. Kashtan, and Arthur J. Matas* S-40

Management of hypertension after transplantation. *John J. Curtis* S-45

Cyclosporine dosing and its relationship to outcome in pediatric renal transplantation. *William E. Harmon and E. Kenneth Sullivan* S-50

Long-term follow-up of growth in children post-transplantation. *Amir Tejani and Kenneth Sullivan* S-56

Corticosteroids and growth. *Richard N. Fine* S-59

Growth hormone in the treatment of growth failure in children after renal transplantation. *Mark R. Benfield, Katrina L. Parker, F. Bryson Waldo, Sandra L. Overstreet, and Edward C. Kohaut* ... S-62

Prednisone inhibits the efficacy of recombinant human growth hormone in pediatric renal transplant recipients. *Elizabeth Ingulli, Anup Singh, Shohreh Moazami, and Amir Tejani* S-65

Growth hormone treatment of growth failure among children with renal transplants. *Kathy Jabs, Cornelis Van Dop, and William E. Harmon* S-71

Predictors of growth response to rhGH in short children before and after renal transplantation. *Elke Wühl, Dieter Haffner, Burkhard Tönshoff, Otto Mehls, and the German Study Group for Growth Hormone Treatment in Chronic Renal Failure* S-76

Hospitalization in children during the first year after kidney transplantation. *Gerald S. Arbus, E. Kenneth Sullivan, and Amir Tejani* S-83

Contents continued on next page

Immunizations for pediatric transplant patients. *Anne A. Gershon* S-87
Recurrent disease in renal allografts. *J. Stewart Cameron* S-91
Clinical significance of allograft glomerulopathy. *Renée Habib and Michel Broyer* S-95
Improving the utilization of cadaver kidneys in children. *Robert B. Ettenger* S-99
Maintenance dialysis in North American children and adolescents: A preliminary report. *Steven R. Alexander, E. Kenneth Sullivan, William E. Harmon, Donald M. Stablein, and Amir Tejani, for the North American Pediatric Renal Transplant Cooperative Study (NAPRTCS)* S-104

KIDNEY INTERNATIONAL

Volume 44, Number 5, November 1993

Official Journal of the International Society of Nephrology

Le Journal Official de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

Is immunologic tolerance of self modulated through antigen presentation by parenchymal epithelium? *Eric G. Neilson* 927

LABORATORY INVESTIGATION

Modulation of phospholipase A_2 activity and sodium transport by angiotensin-(1-7). *Sheila Andreatta-van Leyen, Michael F. Romero, Mahesh C. Khosla, and Janice G. Douglas* 932

Biologic and physical characteristics of the non-peptidic non-digitalis-like natriuretic hormone. *Neal S. Bricker, Laura Zea, Michael Shapiro, Edgar Sanclemente, and Stewart Shankel* 937

Rat mesangial cell hypertrophy in response to transforming growth factor-β1. *Mary E. Choi, Eung-Gook Kim, Qi Huang, and Barbara J. Ballermann* 948

Human mesangial cells and peripheral blood mononuclear cells produce vascular permeability factor. *Kazumoto Iijima, Norishige Yoshikawa, Daniel T. Connolly, and Hajime Nakamura* 959

Modulation of antibody-mediated glomerular injury *in vivo* by interleukin-6. *Ayman M. Karkar, Frederick W.K. Tam, Amanda E.I. Proudfoot, Anthony Meager, and Andrew J. Rees* 967

Cyclosporin A inhibits apical secretory K^+ channels in rabbit cortical collecting tubule principal cells. *Brian N. Ling and Douglas C. Eaton* 974

Quantification and parametric imaging of renal cortical blood flow *in vivo* based on Patlak graphical analysis. *Egbert U. Nitzsche, Yong Choi, David Killion, Carl K. Hoh, Randall A. Hawkins, J. Thomas Rosenthal, Denis B. Buxton, Sung-Cheng Huang, Michael E. Phelps, and Heinrich R. Schelbert* ... 985

Polymerase chain reaction and focal contact formation indicate integrin expression in mesangial cells. *Arndt Petermann, Hans Fees, Harald Grenz, Simon L. Goodman, and R. Bernd Sterzel* .. 997

Renal vascular induction of TGFβ2 and renin by potassium depletion. *Patricio E. Ray, Bryan K. McCune, R. Ariel Gomez, Satoshi Horikoshi, Jeffrey B. Kopp, and Paul E. Klotman* 1006

Tamm-Horsfall glycoprotein binds IgG with high affinity. *Diana C.J. Rhodes, Edward J. Hinsman, and James A. Rhodes* 1014

Transforming growth factor beta increases the expression of HIV-1 gene in transfected human mesangial cells. *Ram R. Shukla, Ajit Kumar, and Paul L. Kimmel* 1022

Stimulated renal tubular epithelial cells induce anergy in $CD4^+$ T cells. *Gary G. Singer, Hitoshi Yokoyama, Roy D. Bloom, Anthony M. Jevnikar, Nasrin Nabavi, and Vicki Rubin Kelley* 1030

Increased expression of monocyte chemoattractant protein-1 in anti-thymocyte antibody-induced glomerulonephritis. *Rolf A.K. Stahl, Friedrich Thaiss, Martina Disser, Udo Helmchen, Kazihiko Hora, and Detlef Schlöndorff* 1036

CLINICAL INVESTIGATION

Protein and energy intake, nitrogen balance and nitrogen losses in patients treated with continuous ambulatory peritoneal dialysis. *Jonas Bergström, Peter Fürst, Anders Alvestrand, and Bengt Lindholm* 1048

The renal clearance and infusion clearance of inulin are similar, but not identical. *Stanley Hellerstein, Max Borenbom, Uri Alon, and Bradley A. Warady* 1058

Apolipoprotein(a) phenotypes and serum lipoprotein(a) levels in maintenance hemodialysis with/without diabetes mellitus. *Kyoko Hirata, Shuichi Kikuchi, Keijiro Saku, Shiro Jimi, Bo Zhang, Setsuya Naito, Hideo Hamaguchi, and Kikuo Arakawa* 1062

Contents continued on next page

Correlation of bone histology with parathyroid hormone, vitamin D_3, and radiology in end-stage renal disease. *Alastair J. Hutchison, Rich W. Whitehouse, Helen F. Boulton, Judy E. Adams, E. Barbara Mawer, Tony J. Freemont, and Ram Gokal* 1071

Effect of an increased intraperitoneal pressure on fluid and solute transport during CAPD. *Alexander L.T. Imholz, Gerardus C.M. Koomen, Dirk G. Struijk, Lambertus Arisz, and Raymond T. Krediet* . 1078

Evidence for high risk of cerebral hemorrhage in chronic dialysis patients. *Kunitoshi Iseki, Kunihiko Kinjo, Yorio Kimura, Akira Osawa, and Koshiro Fukiyama* 1086

Identification of a single base insertion in the COL4A5 gene in Alport syndrome. *Hitoshi Nakazato, Shinzaburo Hattori, Toshinobu Matsuura, Yasushi Koitabashi, Fumio Endo, and Ichiro Matsuda* 1091

Hepatitis C virus RNA in anti-HCV positive hemodialyzed patients: Significance and therapeutic implications. *Stanislas Pol, Raffaella Romeo, Brigitte Zins, Françoise Driss, Bernard Lebkiri, Françoise Carnot, Pierre Berthelot, and Christian Bréchot* 1097

Autosomal dominant polycystic kidney disease in Toronto. *Janet M. Roscoe, Jane E. Brissenden, E. Alexander Williams, Anne L. Chery, and Mel Silverman* 1101

Effects of rHuEPO on Q-EEG and event-related potentials in chronic renal failure. *Teresa Sagalés, Victor Gimeno, M. Jesus Planella, Nuria Raguer, and Jorge Bartolome* 1109

Lipoprotein(a) in nephrotic syndrome. *Peter Stenvinkel, Lars Berglund, Olof Heimbürger, Erna Pettersson, and Anders Alvestrand* 1116

Simvastatin therapy for hypercholesterolemic patients with nephrotic syndrome or significant proteinuria. *Mark E. Thomas, Kevin P.G. Harris, C. Ramaswamy, Jane M. Hattersley, David C. Wheeler, Zac Varghese, John D. Williams, John Walls, and John F. Moorhead* 1124

Role of glucocorticoid in excretion of an acute potassium load in patients with Addison's disease and panhypopituitarism. *Marjolijn van Buren, Ton J. Rabelink, Hans P.F. Koppeschaar, and Hein A. Koomans* 1130

Does prolonged protein restriction preceding dialysis lead to protein malnutrition at the onset of dialysis? *Mackenzie Walser* 1139

Prediction of glomerular filtration rate from serum creatinine concentration in advanced chronic renal failure. *Mackenzie Walser, Helen H. Drew, and Joanna L. Guldan* 1145

RAPID COMMUNICATION

Identification of the renal erythropoietin-producing cells using transgenic mice. *Patrick H. Maxwell, Mark K. Osmond, Christopher W. Pugh, Andrew Heryet, Lynn G. Nicholls, Chorh C. Tan, Brendan G. Doe, David J.P. Ferguson, Martin H. Johnson, and Peter J. Ratcliffe* 1149

NEPHROLOGY FORUM

Renin profiling for diagnosis, risk assessment, and treatment. *John H. Laragh* 1163

ABSTRACTS

Korean Society of Nephrology, Seoul, Korea, May 21–22, 1993 1176

Dutch Society of Nephrology 1192

INTERNATIONAL SOCIETY OF NEPHROLOGY

Meetings 1199

Awards and Grants 1201

Instructions for Authors on page xvi

KIDNEY INTERNATIONAL

Volume 44, Number 6, December 1993

Official Journal of the International Society of Nephrology

Le Journal Official de la Société Internationale de Néphrologie

Table of contents

EDITORIAL REVIEW

A molecular approach to inherited kidney disorders. *Bertrand Knebelmann, Corinne Antignac, Marie-Claire Gubler and Jean-Pierre Grünfeld* 1205

LABORATORY INVESTIGATION

Role of endothelin and prostaglandins in radiocontrast-induced renal artery constriction. *Lloyd G. Cantley, Katherine Spokes, Barbara Clark, Ellen G. McMahon, Jeffrey Carter, and Franklin H. Epstein* 1217

Effect of metabolic acidosis on the expression of insulin-like growth factor and growth hormone receptor. *Anna Challa, Winnie Chan, Richard J. Krieg, Jr., Mohamed Alaa Thabet, Frances Liu, Raymond L. Hintz, and James C.M. Chan* 1224

Evidence suggesting that iron and calcium are interrelated in oxidant-induced DNA damage. *Muralikrishna S. Golconda, Norishi Ueda, and Sudhir V. Shah*..... 1228

Changes in pH affect Cl^- removal and AVP action in collecting tubules. *San-e Ishikawa, Koji Okada, and Toshikazu Saito* 1235

Distribution and relevance of insulin-like growth factor-I receptor in metanephric development. *Zheng Z. Liu, Jun Wada, Keith Alvares, Anil Kumar, Elisabeth I. Wallner, and Yashpal S. Kanwar*..... 1242

Effects of rhGH and rhIGF-1 on renal growth and morphology. *Otto Mehls, Tomasz Irzynjec, Eberhard Ritz, Staffan Eden, Gabór Kovàcs, Günter Klaus, Jürgen Floege, and Gerhard Mall*. 1251

Intermittent versus continuous administration of 1,25-dihydroxyvitamin D_3 in experimental renal hyperparathyroidism. *Helmut Reichel, Andras Szabo, Jens Uhl, Siamak Pesian, Axel Schmutz, Heinrich Schmidt-Gayk, and Eberhard Ritz*..... 1259

Captopril inhibits the 72 kDa and 92 kDa matrix metalloproteinases. *Darius Sorbi, Magued Fadly, Robert Hicks, Sterling Alexander, and Leonard Arbeit*..... 1266

Expression of endothelin-3 mRNA along rat nephron segments using polymerase chain reaction. *Yoshio Terada, Kimio Tomita, Hiroshi Nonoguchi, Tianxin Yang, and Fumiaki Marumo* 1273

Recombinant human growth hormone exacerbates chronic puromycin aminonucleoside nephropathy in rats. *Howard Trachtman, Stephen Futterweit, Netanel Schwob, John Maesaka, and Elsa Velderrama* 1281

Expression of glycolipid blood group antigens in single human kidneys: Change in antigen expression of rejected ABO incompatible kidney grafts. *Ami Ulfvin, Annika E. Bäcker, Henrik Clausen, Sen-itiroh Hakomori, Lennart Rydberg, Bo E. Samuelsson, and Michael E. Breimer* 1289

CLINICAL INVESTIGATION

Detection of abnormal peripheral blood mononuclear cell cytokine networks in human IgA nephropathy. *Mark P. de Caestecker, Martin Bottomley, Brian A. Telfer, Ian V. Hutchinson, Brent M. Vose, and Francis W. Ballardie*..... 1298

Cardiovascular consequences of correction of the anemia of renal failure with erythropoietin. *Susan K. Fellner, Roberto M. Lang, Alex Neumann, Claudia Korcarz, and Kenneth M. Borow*. 1309

Contents continued on next page

Differential splicing of COL4A5 mRNA in kidney and white blood cells: A complex mutation in the COL4A5 gene of an Alport patient deletes the NC1 domain. *Caiying Guo, Boudewijn Van Damme, Rita Van Damme-Lombaerts, Herman Van den Berghe, Jean-Jacques Cassiman, and Peter Marynen* 1316

Incidence and risk factors for hepatitis C seroconversion in hemodialysis: A prospective study. *Michel Jadoul, Chantal Cornu, Charles van Ypersele de Strihou, and the UCL Collaborative Group* 1322

HIV-associated immune-mediated renal disease. *Paul L. Kimmel, Terry M. Phillips, Andrea Ferreira-Centeno, Tunde Farkas-Szallasi, A. Andrew Abraham, and Carleton T. Garrett* 1327

Receptor-mediated uptake of IDL and LDL from nephrotic patients by glomerular epithelial cells. *Annette Krämer, Matthias Nauck, Hermann Pavenstädt, Susanne Schwedler, Heinrich Wieland, Peter Schollmeyer, and Christoph Wanner* 1341

Hypertriclyceridemia and lowered apolipoprotein C-II/C-III ratio in uremia: Effect of a fibric acid, clinofibrate. *Yoshiki Nishizawa, Tetsuo Shoji, Hiroshi Nishitani, Makato Yamakawa, Toshiaki Konishi, Koichi Kawasaki, and Hirotoshi Morii* 1352

Expression of apolipoprotein B epitopes in low density lipoproteins of hemodialyzed patients. *Véronique Reade, Anne Tailleux, Richard Reade, Pascal Harduin, Claude Cachera, Albert Tacquet, Jean-Charles Fruchart, and Catherine Fievet* 1360

Free and protein-bound tryptophan in serum of untreated patients with chronic renal failure. *Mackenzie Walser and Sylia B. Hill* 1366

RAPID COMMUNICATION

In situ hybridization and localization of mRNA for the rabbit prostaglandin EP_3 receptor. *Matthew D. Breyer, Harry R. Jacobson, Linda S. Davis, and Richard M. Breyer* 1372

NEPHROLOGY FORUM

Use of angiotensin-converting enzyme inhibitors for diagnosing renovascular hypertension. *Christopher S. Wilcox* 1379

ABSTRACTS

Italian Society of Nephrology 1391

Hispano-Americano Congreso de Nefrologia 1402

INTERNATIONAL SOCIETY OF NEPHROLOGY

Meetings 1500

Awards and Grants 1502

ACKNOWLEDGMENT OF REFEREES 1505

INDEX TO VOLUME 44 1512

Instructions for Authors on page iii